

Patent claims

1. A module for installation in a device for compressing concrete, having
 - a formwork device (2);
 - a vibration decoupling device (3) fastened to the formwork device (2); and having
 - at least one vibration exciter (4) fastened to the formwork device (2);electrical supply lines (8) for the vibration exciter or exciters (4) being fastened to the formwork device (2) and being held on the formwork device (2) by the vibration decoupling device (3).
2. The module as recited in Claim 1, **characterized in that** the electrical supply lines (8) run between the vibration decoupling device (3) and the formwork device (2).
3. The module as recited in Claim 1 or 2, **characterized in that** the vibration decoupling device has a foam layer (3), and that the electrical supply lines (8) run inside the foam layer (3).
4. The module as recited in one of Claims 1 to 3, **characterized in that** an electrical connecting device (10) is fastened to the formwork device (2) for coupling the electrical supply lines (8) to an electrical supply network.
5. The module as recited in Claim 4, **characterized in that** on the connecting device (10) a central plug connector (12) is provided for coupling to the supply network.
6. The module as recited in Claim 4 or 5, **characterized in that** the electrical supply lines (8) between the connecting device (10) and the vibration exciter (4) are fastened completely to the formwork device (2).
7. The module as recited in one of Claims 4 to 6, **characterized in that** the electrical connecting device (10) is decoupled in terms of vibration from the formwork device (2).

8. A device for compressing concrete during the manufacture of concrete parts, **characterized in that**

- a module as recited in one of Claims 1 to 7 is provided, the formwork device (2), the vibration decoupling device (3), and the vibration exciter (4) being completely pre-assembled to form the module; and that
- the pre-assembled module is capable of being placed onto a bearing structure (1).

9. The device as recited in Claim 8, **characterized in that** in the bearing structure (1) recesses (7) are provided for accepting the vibration exciters (4).

10. A device for compressing concrete during the manufacture of concrete parts, having

- a bearing structure (1);
 - a formwork device (2) held by the bearing structure (1);
 - a vibration decoupling device (3) provided between the bearing structure (1) and the formwork device (2); and having
 - at least one vibration exciter (4) that acts directly on the formwork device (2);
- in which
- an excitation frequency produced by the vibration exciter (4) is a frequency that is advantageous for the concrete compressing; and in which
 - a system made up of the bearing structure (1) and the vibration decoupling device (3) is designed in such a way that its resonant frequency is not situated in the range of the excitation frequency;

characterized in that

- the formwork device (2), the vibration decoupling device (3), and the vibration exciter (4) are combined to form a pre-assembled module as recited in one of Claims 1 to 7;
- the module is capable of being placed onto the bearing structure (1).

11. The device as recited in Claim 10, **characterized in that** the resonant frequency of the system made up of the bearing structure (1) and the vibration decoupling device (3) is less than the excitation frequency of the vibration exciter (4).

12. The device as recited in Claim 10 or 11, **characterized in that** the resonant frequency is at most half as large as the excitation frequency.
13. The device as recited in one of Claims 10 to 12, **characterized in that** the bearing structure (1) is provided with a mass that is as great as possible.
14. The device as recited in one of Claims 10 to 13, **characterized in that** the bearing structure (1) is formed essentially by a concrete base.
15. The device as recited in one of Claims 10 to 14, **characterized in that** the bearing structure (1) is decoupled in terms of vibration from a floor (5) that supports it.
16. The device as recited in one of Claims 10 to 15, **characterized in that** a soft layer (6) is provided between the bearing structure (1) and the floor (5).
17. The device as recited in one of Claims 10 to 16, **characterized in that** recesses (7) are provided in the bearing structure (1) for accepting the vibration exciters (4).
18. The device as recited in one of Claims 10 to 17, **characterized in that** the vibration decoupling device (3) is fastened to the formwork device (2).